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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,281	07/10/2003	James E. C. Brown	TI-36887	2447
23494	7590	10/29/2008	EXAMINER	
TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999 DALLAS, TX 75265			VLAHOS, SOPHIA	
ART UNIT	PAPER NUMBER			
	2611			
NOTIFICATION DATE	DELIVERY MODE			
10/29/2008	ELECTRONIC			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

[uspto@ti.com](mailto:uspto@ti.com)

**Advisory Action  
Before the Filing of an Appeal Brief**

**Application No.**

10/617,281

**Examiner**

SOPHIA VLAHOS

**Applicant(s)**

BROWN, JAMES E. C.

**Art Unit**

2611

**—The MAILING DATE of this communication appears on the cover sheet with the correspondence address —**

THE REPLY FILED 06 October 2008 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1.  The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

a)  The period for reply expires \_\_\_\_ months from the mailing date of the final rejection.  
 b)  The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.  
 Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**NOTICE OF APPEAL**

2.  The Notice of Appeal was filed on \_\_\_\_\_. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

**AMENDMENTS**

3.  The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because  
 (a)  They raise new issues that would require further consideration and/or search (see NOTE below);  
 (b)  They raise the issue of new matter (see NOTE below);  
 (c)  They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or  
 (d)  They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: \_\_\_\_\_. (See 37 CFR 1.116 and 41.33(a)).

4.  The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).

5.  Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.

6.  Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).

7.  For purposes of appeal, the proposed amendment(s): a)  will not be entered, or b)  will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: \_\_\_\_\_

Claim(s) objected to: \_\_\_\_\_

Claim(s) rejected: 1,3-5,9,10,12,14 and 15

Claim(s) withdrawn from consideration: \_\_\_\_\_

**AFFIDAVIT OR OTHER EVIDENCE**

8.  The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).

9.  The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fail to provide a showing a good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).

10.  The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

**REQUEST FOR RECONSIDERATION/OTHER**

11.  The request for reconsideration has been considered but does NOT place the application in condition for allowance because:  
See Continuation Sheet

12.  Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). \_\_\_\_\_

13.  Other: \_\_\_\_\_

/Mohammad H Ghayour/  
 Supervisory Patent Examiner, Art Unit 2611

/SOPHIA VLAHOS/  
 Examiner, Art Unit 2611

Continuation of 11. does NOT place the application in condition for allowance because: Applicant's arguments filed on 10/06/08 have been considered but are not persuasive. Applicant states: "The adjustment of the cutoff frequency of the lowpass filter is not anticipated by Mohindra (341) as evidenced by the inclusion of an adjustable allpass filter addition to the lowpass filter." The rejection of independent claims 1 and 10 was not based on anticipation, but obviousness. Mohindra (341) as pointed out by Applicant, in Fig. 6 shows an adjustable all-pass filter, however, column 9, lines 50-56, Mohindra (341) explains that using all-pass filters is a preferred embodiment but admits that low-pass filters are used, but prefers to use the allpass filters, since low-pass filters introduce frequency dependent IQ gain imbalances. Therefore, at the time of the invention, one of ordinary skill in the art would have been motivated to use low-pass filters in place of all-pass filters if frequency dependent IQ gain imbalances were not an issue, so as to reduce the filter complexity.

Furthermore, no advantage of using adjustable lowpass filters is explained in the instant application.

With respect to the cross-correlation feedback signal, Mohindra (341) uses the computed left side of eqn 4 (column 8) as a feedback signal, that is drive to minimum (zero), to adjust the RC values of an allpass filter (column 9, lines 1-42). The terms in equation 4 are not identified as corresponding to a cross-correlation of I and Q. Mohindra (829) fills in this gap, since in column 3, lines 17- 46, it is identified that the left side term of eqn (4) in Mohindra (341) corresponds to a cross-correlation operation between the I and Q tones.